World Academy of Science, Engineering and Technology
International Journal of Animal and Veterinary Sciences
Vol:12, No:02, 2018

Effect of Gender on Carcass Parameters in Japanese Quail

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Abstract : This study was conducted to determine the effects of and sex on the carcass characteristics in Japanese quails. A total of 320 (160 for each sex groups) one-day-old quail chicks were randomly allocated to the sex groups, each containing 160 chicks according to a completely randomized design. Each gender was then divided into five replicate groups of 32 chicks. According to sex groups, the chicks of all replicate groups were housed in cages. The normality of distribution for all data was tested with the Shapiro-Wilk test at 95% confidence interval. A P value of ≤ 0.05 was interpreted as different. The statistical analysis for normal distribution data of the dietary groups was carried out with the general linear model procedure of SPSS software. The results are expressed as mean ± standard deviation of five replications. Duncan's multiple range test was used for multiple comparisons in important groups. Data points bearing different letters are significantly different P ≤ 0.05. For the distribution of data that was different from normal, Kruskal Wallis H-Test was applied as a nonparametric test, and the results were expressed as median, minimum and maximum values. Pairwise comparisons of groups were made when Kruskal Wallis H-Test was significant. The study period lasted 42 days. Hot carcass, cold carcass, heart, and leg percentages in male quails was higher than female quails (P < 0.05), but liver, and breast percentages in female quails was higher than male quails (P > 0.05). The highest slaughter and carcass weight values were determined in the female quails in the cage. As a conclusion, it may be recommended to quail meat producers, who would like to obtain higher carcass weight to make more economic profit, to raise female quails in cage.

Keywords : carcass yield, chick, gender, management
Conference Title : ICLMHS 2018 : International Conference on Livestock Management and Humane Slaughter
Conference Location : Dublin, Ireland
Conference Dates : February 15-16, 2018